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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-09-27 **Date: 11-11-19**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 08-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 09-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.2	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	146 minutes	Not less than 30 minutes
6	Final Setting time	292 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.5mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-09-27** **Date: 11-11-19**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 08-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-09-27** **Date: 11-11-19**
Project Name	:	Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.
Agency	:	M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.
Customer Reference	:	BBMP/EE/YNK.D/W.O/ 000162 /2019-20
Date of Receipt	:	08-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-09-27 **Date: 11-11-19**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	191	961	96.1	3.9	0-10	0-10	0-10	0-15
8	Pan	39	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-09-27** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 12-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 12-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-09-27

Date: 23-11-19

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 19-11-19

Sample Type /Size : Precast Cover Slab(100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.48	1.116	4474	80.5	18.0	16.7	20.9
2	Cover Slab-2	75.49	100.5	1.122	4475	82.7	18.5	17.2	21.5
3	Cover Slab-3	75.51	100.51	1.118	4477	81.9	18.3	17.0	21.3

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-09-27

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division. **Date: 23-11-19**

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 19-11-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.52	250.48	3.118	31574	240.7	7.6	7.1	8.9
2	Cover Slab-2	200.48	250.52	3.126	31561	242.5	7.7	7.1	8.9
3	Cover Slab-3	200.51	250.50	3.118	31570	241.9	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27

Date: 23/11/2019

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	149.37 X 149.27 X 151.43	22297	8.976	422.5	18.9	18.8
2	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	150.37 X 151.63 X 150.19	22800	8.846	428.1	18.8	
3	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	151.48 X 149.45 X 150.07	22639	8.269	422.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27 **Date: 23/11/2019**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	150.13 X 149.84 X 150.59	22496	8.976	414.7	18.4	18.5
2	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	150.90 X 150.52 X 151.76	22713	8.846	430.8	19.0	
3	Drain Bottom Slab Concrete	M20	16/11/2019	23/11/2019	151.70 X 149.43 X 149.48	22669	8.269	412.8	18.2	

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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27

Date: 28/11/2019

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.50 X 150.72 X 149.27	22833	8.976	430.6	18.9	18.7
2	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.67 X 149.43 X 149.15	22665	8.846	417.9	18.4	
3	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.26 X 151.17 X 151.23	22867	8.269	430.2	18.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27

Date: 28/11/2019

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	149.95 X 151.05 X 150.07	22650	8.976	424.3	18.7	18.5
2	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	149.89 X 151.02 X 150.77	22637	8.846	415.6	18.4	
3	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	149.52 X 151.22 X 151.32	22610	8.269	413.5	18.3	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/11/2019

Lab ID	:	CP-2020-01-09-27
Project Name	:	Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.
Agency	:	M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/ 000162 /2019-20
Date of Receipt	:	23-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.96 X 151.20 X 150.35	22975	8.976	433.7	18.9	18.5
2	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	149.78 X 150.91 X 151.81	22603	8.846	413.1	18.3	
3	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	149.02 X 151.79 X 149.24	22620	8.269	415.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27 **Date: 28/11/2019**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 23-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.72 X 150.42 X 150.22	22821	8.976	418.5	18.3	18.4
2	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	151.33 X 149.48 X 150.14	22620	8.846	414.1	18.3	
3	Drain Side Wall Concrete	M20	21/11/2019	28/11/2019	150.40 X 150.54 X 151.42	22641	8.269	421.1	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27 **Date: 02/12/2019**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 27-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	151.49 X 151.25 X 150.18	22913	8.976	425.5	18.6	18.5
2	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	149.48 X 151.40 X 149.15	22631	8.846	412.7	18.2	
3	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	150.77 X 149.75 X 149.65	22578	8.269	421.6	18.7	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27 **Date: 05/12/2019**

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	149.26 X 150.91 X 151.11	22524	8.976	411.3	18.3	18.3
2	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	150.48 X 150.78 X 149.29	22688	8.846	420.0	18.5	
3	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	150.72 X 150.50 X 151.28	22683	8.269	412.6	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-09-27 Date: 10/12/2019

Project Name : Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.

Agency : M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/ 000162 /2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.42 X 150.46 X 149.72	22482	8.286	581.1	25.8	25.6
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.26 X 151.60 X 149.05	22779	8.614	611.2	26.8	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.27 X 149.60 X 150.54	22479	8.708	540.1	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2019

Lab ID	:	CP-2020-01-09-27
Project Name	:	Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.
Agency	:	M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/ 000162 /2019-20
Date of Receipt	:	05-12-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.58 X 151.87 X 149.76	22717	8.104	750.7	33.0	33.3
2	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.13 X 150.02 X 151.31	22672	8.901	747.2	33.0	
3	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.15 X 150.79 X 150.66	22791	8.069	774.8	34.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/12/2019

Lab ID	:	CP-2020-01-09-27
Project Name	:	Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.
Agency	:	M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/ 000162 /2019-20
Date of Receipt	:	05-12-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.33 X 149.07 X 149.17	22560	8.286	572.6	25.4	25.4
2	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.77 X 149.21 X 150.38	22347	8.614	586.9	26.3	
3	Cement Concrete Pavement	M30	03/12/2019	10/12/2019	150.11 X 150.66 X 151.01	22616	8.708	554.9	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2019

Lab ID	:	**CP-2020-01-09-27**
Project Name	:	Improvements to Roads and Drains in Venkatala Janatha Colony, Marutinagara SC-ST Areas and Surrounding Areas in Ward no:01 Yelahanka Sub Division.
Agency	:	M/s.Technical Manager (West), KRIDL, Bangalore, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle, Bangalore:560010.
Customer's Reference	:	BBMP/EE/YNK.D/W.O/ 000162 /2019-20
Date of Receipt	:	05-12-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.30 X 151.06 X 149.94	22554	8.104	759.8	33.7	33.3
2	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.28 X 149.68 X 151.04	22644	8.901	735.4	32.5	
3	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.94 X 149.40 X 149.68	22402	8.069	752.5	33.6	

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